Grand Trunk Railway.

SPECIFICATION

OF

PLATFORM CARS.

GRAND TRUNK RAILWAY.

SPECIFICATION

OF

PLATFORM CARS.

GAUGE 4 FEET 8½ INCHES.

GENERAL CONDITIONS.

The cars must be made to the dimensions given in the following Specification, and according to the drawing and samples furnished. The timber used must be of first quality, dry, sound, well-seasoned, and accurately fitted together. The wrought iron must be of best "Staffordshire," or of equal and approved quality. The castings must be made from tough grey pig iron, and must be sound, smooth, and perfect in all respects. All the bolts and nuts must be screwed to "Whitworth's" thread.

The cars must be fitted and finished in the most complete manner to the entire satisfaction of the Company's Mechanical Superintendent, or his Agent, who shall be allowed to inspect the work with power to reject any part found to be defective in quality or workmanship, or not in accordance with the Specifications, &c.

The wheels, axles and springs, must be warranted for twelve months after being set to work. Any failure during that period—except such as results from accident—must be made good by the Contractor.

MECHANICAL SUPERINTENDENTS' OFFICE,
MONTREAL, April 15th, 1873.

GRAND TRUNK RAILWAY.

FRAMING.

No.		FT.	IN.
	Length.....	29	0
	Breadth.....	8	6
2	Side Soles—White Oak.....		5 x12
2	Intermediate Longitudinals, — Tamarac or Red Pine.....		$4\frac{1}{2}$x9
2	Centre Longitudinals—Oak....		$4\frac{1}{2}$x9
2	Headstocks—White Oak.....		5 x9
	" Length.....	8	2
2	Body Bolsters—White Oak....		5 x14
	" " Length.....	8	6
2	Tramsoms—White Oak or White Ash.....		5 x9
	" Length.....	8	6
2	Packing Blocks.....		7 x$7\frac{1}{4}$
	" " Length.....	2	0

Central and Intermediate longitudinals are framed into headstocks with 2, $1\frac{3}{8}$ in. tenons and secured by $\frac{5}{8}$ joint bolts. Headstocks tenoned into side sole with 2, $1\frac{3}{8}$ in. tenons and secured by 2, $\frac{5}{8}$ in. joint bolts at each end, Body bolster checked into all longitudinals and secured to each by 2, $\frac{5}{8}$ in. joint bolts—except centre longitudinals which are $\frac{3}{4}$ in. dia. and carry crown plate. Transom checked into each longitudinal and secured by 1, $\frac{5}{8}$ in. bolt, and to side sole by 1, $\frac{5}{8}$ in. joint bolt.

FLOORING.

Description—Pine laid transverse y.

	Width of Boards....		7 to 10
	Thickness "		2
	Length "	8	8
18	Nails to each.		
	" Length.....		$4\frac{1}{2}$

Battens Planed on one side, Tongued and Grooved.

No.		FT.	IN.
20	Stake Holders—Cast Iron.....		
20	Stirrups.....dia.		$\frac{7}{8}$

BUNTER.

Description—Cast Iron, with Rubber Springs; Specimen supplied complete.

2	Springs—dia. 6 inches; length.		7
2	Outer Seats—Cast Iron; thickness.....		$1\frac{3}{4}$
2	Inner Seats — Wrought Iron; thickness.....		$1\frac{1}{2}$
24	Bolts—Cradle and Glands; dia. 2 nuts and $\frac{3}{16}$ inch split pin..		$\frac{3}{4}$
2	Tail Pins.....dia. With flat gib headed cotter, 2 x $\frac{5}{16}$ secured by $\frac{3}{8}$ inch split pin.		2

DEAD-HEADS.

Description—Oak or Ash faced with Wrought Iron Plate.

4	Plates—Thickness $\frac{1}{4}$, size.....		9 x10
16	Rivets,.....dia		$\frac{3}{8}$
4	Bolts ..... "		1
	2 Bolts to Headstock, and 2 to Bolster.		

TRUSS-RODS

Description—Wrought Iron whole Length of Car.

2	Rods.....dia.		$1\frac{1}{8}$
	Screwed ends ..... "		$1\frac{3}{8}$

Truss to pass over bolster, under transom and through headstock, close to outside of intermediate. Shoes and washer to be cast iron.

BRAKE.

Description—Outside, on one Truck, having Oak beam and cast iron Shoes.

No.		FT.	IN.
4	Slings, ...dia.		1
4	Carrying Pins..... "		$1\frac{1}{8}$
4	Safety Links..... "		$\frac{3}{4}$
4	Toggle Pins, length 1ft. $1\frac{1}{2}$ in "		$\frac{7}{8}$
2	Beams ..... " 5 ft. $2\frac{1}{2}$ in. "		$3\frac{1}{2}$ x$6\frac{1}{2}$
4	Shoes, surface.....		3 x15
2	Brake Rods.....dia.		$\frac{5}{8}$
1	" Shaft ..... "		1
1	" Wheel ..... "	1	3

TRUCKS.—PATTERNS WILL BE SUPPLIED.

Description—4 Wheeled Side-bearing Composite Frame.

Wheels to be of G. T. R. standard, well chilled, cast from best Salisbury, or Three Rivers Charcoal Iron, or of equal and approved quality.

8	Wheels .....centres.	4	4
"	" .....dia....	2	9
"	" .....tread..		$4\frac{1}{2}$
4	Transverse Beams.....	7	6
"	Section " "		$4\frac{1}{2}$ x$8\frac{1}{2}$
4	Blocking Pieces, length $9\frac{3}{4}$ inch.		3 x$6\frac{1}{4}$
4	Bolts for same .....dia.		$\frac{5}{8}$
4	Sole Plates, (cast)...thickness.		$\frac{3}{4}$
2	Centre Block over cross beams.	$1\frac{1}{2}$	6 x14
2	Crown Plates, thickness.....		1
16	Bolts.....dia.		$\frac{3}{4}$
4	Spring Seats, Oak.....	$1\frac{1}{2}$	3 x12
	" " Plates $\frac{1}{4}$ thick, dia.		10
3	Stirrups..... "		$\frac{3}{4}$
8	Bridge Plates, length 6 inches.		3 x $\frac{5}{8}$
8	Bolts—To hold frames together, ...dia.		$\frac{3}{4}$
8	Bars 5 ft 1"		1 x 3
14	" 5 ft 11½"		1 x 3

No.		FT.	IN.
16	Bolts—Axle Box, dia. $\frac{7}{8}$, length	1	$2\frac{1}{2}$
"	To have 2 nuts and $\frac{3}{16}$ inch split pins.		
	The thread of Bolts must not be carried up into tie bar more than $\frac{1}{8}$ inch.		

Trucks when turned out, must have axle-Boxes packed with cotton waste, saturated with best Petroleum Oil, as used by Grand Trunk Railway.

SPRINGS.

Description—Hebbard Spiral, of approved make, of Four Coils per Spring; 2 Springs on each Truck.

	Height, 8 inches..... dia.	8
8	Shoes for Spring, Cast Iron... "	$9\frac{1}{4}$

Platform

AXLES.

Half to be from the Patent Shaft and Axletree Company (England), of their best make.—and branded with their name, and half of "Moisic" Iron, branded with maker's name, or of equal and approved quality.

2	Outside Journals.....centres.	6	4
	" " .....dia.		$3\frac{1}{2}$
	" " .....length.		6
	Wheel Seat.....dia.		$4\frac{1}{2}$
	Centre of Axle..... "		4
8	Journal Bearings of best Brass.		

Axle Boxes of cast iron with rubber or leather washer on back end of box (as per sample sent).

PAINTING.

Tenons and mortices to be thickly coated with white lead. Outside of Car to have 3 coats best oil paint,--2 of white lead and 1 of buff permanent colour. Trucks to have 2 coats of paint (approved colour) made from best white lead. All Iron work to have one coat good black paint.. Further particulars will be given as to lettering.

FORM OF TENDER.

.....do hereby agree to supply the Grand Trunk Railway Company with ..... Platform ~~Box~~ Cars, in accordance with the Specification, &c., for the sum of ..... for each Car.

Signed, ...

.....Witness.

To be delivered at Stratford, Toronto or Montreal, free of charges, on or before .....

.....

— Form of Tender —

do hereby agree to supply the Grand Trunk Railway Company with

Platform Car trucks in accordance with the Specifications for the sum of

for each truck —

Signed

Witness

To be delivered at Stratford Toronto or Montreal free of charge on or before

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railway

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